

09/857466

JC03 Rec'd PCT/PTC

05 JUN 2001

FILING PARTICULARS

TITLE: Method and apparatus for providing a computerised television apparatus

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G6J 1N7

APPLICANTS: Same as the inventors

INVENTORS  
NATIONALITY: Canadian

PRIORITY: United States, no. 60/111,274 dated December 7, 1998

DOCUMENTS:

Enclosed: -Transmittal Letter to the USPTO Designated/Elected  
Office (DO/EO/US) concerning a filing under 35 U.S.C.  
371 Form PTO-1390  
-PCT Notice informing the applicant of the  
communication of the international application to the  
Designated Offices Form PCT/IB/308

To follow: -Combined Declaration and Power of Attorney  
-Small Entity Status documents  
-Information disclosure statement  
-List of prior art  
-Copy of prior art

AGENTS: -Ronald S. Kosie, Reg. No.: 28,814  
-Robert Brouillette, Reg. No.: 31,930

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CA 99/1168

PCT / CA 99/01168

REC'D 29 DEC 1999

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PA 147067

# THE UNITED STATES OF AMERICA

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United States Patent and Trademark Office

September 08, 1999

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APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A  
FILING DATE UNDER 35 USC 111.

APPLICATION NUMBER: 60/111,274

FILING DATE: December 07, 1998

## PRIORITY DOCUMENT

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*N. Woodson*  
N. WOODSON

Certifying Officer

Alpro

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# PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53 (b)(2).

INVENTOR(S)		
Given Name (first and middle (if any))	Family Name or Surname	Residence (City and either State or Foreign Country)
André	DUSSAULT	Québec, Québec
Jean-Pierre	RAFENOMANJATO	St-Etienne de Lauzon, Québec
<input type="checkbox"/> Additional inventors are being named on the _____ separately numbered sheets attached hereto		
TITLE OF THE INVENTION (280 characters max)		
MULTIFUNCTIONAL COMPUTERIZED TELEVISION APPARATUS		
CORRESPONDENCE ADDRESS		
Direct all correspondence to:		
<input type="checkbox"/> Customer Number	<input type="text"/>	Place Customer Number Bar Code Label here
OR Type Customer Number here		
<input checked="" type="checkbox"/> Firm or Individual Name	LESERANCE & MARTINEAU	
Address 1440 Ste-Catherine west		
Address Room 700		
City Montreal	State Quebec	ZIP H3G 1R8
Country Canada	Telephone 514-861-4831 Fax 514-392-9112	
ENCLOSED APPLICATION PARTS (check all that apply)		
<input checked="" type="checkbox"/> Specification Number of Pages 4	<input checked="" type="checkbox"/> Small Entity Statement	
<input checked="" type="checkbox"/> Drawing(s) Number of Sheets 1	<input checked="" type="checkbox"/> Other (specify) Declaration and Power of Attorney	
METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT (check one)		
<input type="checkbox"/> A check or money order is enclosed to cover the filing fees		FILING FEE AMOUNT (\$)
<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: 12:1110		\$75.00
The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.		
<input checked="" type="checkbox"/> No.		
<input type="checkbox"/> Yes, the name of the U.S. Government agency and the Government contract number are: _____		

Respectfully submitted,

SIGNATURE

Date 12 02 98

TYPED or PRINTED NAME François Martineau

REGISTRATION NO. 33072  
(if appropriate)

TELEPHONE 514-861-4831

Docket Number: 2609-1

## USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Box Provisional Application, Assistant Commissioner for Patents, Washington, DC 20231.

STATEMENT OF STATUS AS SMALL ENTITY

HONORABLE COMMISSIONER  
OF PATENTS & TRADEMARKS  
Washington D.C. 20231 U.S.A.

In the patent application of: (1) DUSSAULT, André  
(2) RAFENOMANJATO, Jean-Pierre  
\_\_\_\_\_  
\_\_\_\_\_

for: MULTIFUNCTIONAL COMPUTERIZED TELEVISION APPARATUS  
\_\_\_\_\_  
\_\_\_\_\_

Sir:

I (We) hereby verify that:

1) **independent inventor:** I am (we are) the inventor(s) in this application. No rights in the invention forming the subject matter of this application have been assigned, granted, conveyed or licensed to any person who could not likewise be classified as an independent inventor if that person had made the invention or to any concern that would not qualify as a small business concern or a non-profit organization under 37 C.F.R. § 1.9.

He\she\they is\are under no obligation under contract or law to assign, grant, convey, or license any rights in the invention forming the subject matter of this application to any person who could not likewise be classified as an independent inventor if that person had made the invention or to any concern that would not qualify as a small business concern or a non-profit organization under 37 C.F.R. § 1.9.

The applicant(s) in this application is\are under an obligation under contract or law to assign, grant, convey, or license rights in the invention forming the subject matter of this application to:

\_\_\_\_\_  
an individual who could be classified as an independent inventor if he had made the invention and who, by his signature below verifies same.

2) **small business:** The applicant(s) in this application is\are under an obligation under contract or law to assign, grant, convey, or license rights in the invention forming the subject matter of this application to:

\_\_\_\_\_(a firm)

Exclusive rights to the invention forming the subject matter of this application have been conveyed to and remain with:

\_\_\_\_\_(a firm)

The firm identified in the herein-above two last paragraphs qualifies as a small business concern as defined in 37 C.F.R. § 1.9(d) [less than five hundred employees, including full, part-time and temporary employees averaged over the fiscal year of the business].

3) **non-profit organisation:** The applicant(s) in this application is\are under an obligation under contract or law to assign, grant, convey, or license rights in the invention forming the subject matter of this application to:

\_\_\_\_\_(a non profit organization).

Exclusive rights in the invention of the above application have been assigned to and remain with:

\_\_\_\_\_(a non-profit organization).

The organization identified in the herein-above two last paragraphs qualifies as a non-profit organization as defined in 37 C.F.R. § 1.9 (e):

\_\_\_\_\_ a foreign or domestic university or college;

\_\_\_\_\_ a foreign or domestic religious, charitable, scientific, literary, or educational organization (except political organizations).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

(a) 18 November 19 98  
date

(b) 18<sup>th</sup> of November 19 98  
date

(c) \_\_\_\_\_ 19 \_\_\_\_  
date

(d) \_\_\_\_\_ 19 \_\_\_\_  
date

(e) \_\_\_\_\_ 19 \_\_\_\_  
date

\_\_\_\_\_  
name and title of SBF signer

(f) \_\_\_\_\_ 19 \_\_\_\_  
date

\_\_\_\_\_  
name and title of NPO signer

André Dussault  
signature of independant inventor  
André Dussault

Jean-Pierre Rafenomanjato  
signature of independant inventor  
Jean-Pierre Rafenomanjato

\_\_\_\_\_  
signature of independant inventor

\_\_\_\_\_  
signature of indiv. recipient

\_\_\_\_\_  
small business firm (SBF) name

\_\_\_\_\_  
signature of SBF signer

\_\_\_\_\_  
non-profit organiz. (NPO) name

\_\_\_\_\_  
signature of NPO representative

bu-pet.bil

TITLE OF THE INVENTION: MULTIFUNCTIONAL COMPUTERIZED TELEVISION  
APPARATUS

FIELD OF THE INVENTION

5           The present invention relates to telecommunication devices, and more particularly to a multifunctional computerized television apparatus.

OBJECTS OF THE INVENTION

10           It is the gist of the invention to provide a computerized television apparatus having a wide variety of functions allowing a person to accomplish different tasks on a same apparatus, while having a simple mode of operation.

DESCRIPTION OF THE DRAWINGS

15           The single annexed drawing sheet is a block diagram schematically showing the main elements of the computerized television apparatus of the invention.

DETAILED DESCRIPTION OF THE EMBODIMENTS

20           In the annexed drawing, there is shown a block diagram of a computerized television apparatus 2 according to the preferred embodiment of the invention. Apparatus 2 comprises a processing unit (CPU) 4 which is conventionally connected to a  
25           temporary random access memory(RAM) 6 and to a permanent



writable and readable program memory 8. CPU 4 is controlled by the user of apparatus 2 by means of a keyboard, a mouse and remote control all referenced as peripheral devices 10 in the drawing. Preferably, peripheral devices are wireless so as to  
5 allow remote control of apparatus 2 resulting in enhanced flexibility to the user.

CPU 4 is linked to a display controller 12, which has a suitable video temporary memory 14, which is in turn linked to a video mixer 16 and then to a suitable screen 18 controlled by a deflection controller 19, e.g. a 21" screen, to allow a visual  
10 display for the user.

An analog video input signal is received by a tuner 20, which transmits its signal to an analog to digital converter 22, the latter being linked to CPU 4.

Tuner 20 also transmits the sound band portion of the  
15 input signal to an audio controller 24 linked to an amplifier and speakers combination 26 which allow sound output for the user.

CPU 4 is further linked to an ethernet controller 28,  
20 which is in turn linked to a local network system by means of a suitable connector 30. CPU 4 is also linked to a modem device 32, which is in turn linked through a suitable connector 34 to the worldwide web, thus allowing internet browsing.

A controlled power input 36 feeds the components of  
25 device 2, and can be selectively activated and deactivated by

the user.

It can be seen that with apparatus 2, a number of different functions can be accomplished. Indeed, the RAM and program memories 6, 8, together with CPU 4, control peripheral devices 10, and video elements 12, 14, 16, 18, 19 allow the user of apparatus 2 to perform a wide variety of computer related operations; more particularly, the computer related operations are accomplished in relation with the data obtained through the local network and the internet 30, 34, and through the video and audio inputs 20. Thus, it is possible for the user to subdivide the screen display into a number of different images ("picture-in-picture"), some of which may be television programs, while simultaneously visualizing network or internet files. Apparatus 2 remains easy to use due to the wireless remote controllers 10 which allow the user to position himself at a selected distance from screen 18. No floppy or CD-ROM drives are provided on apparatus 2, and thus all the software required for the apparatus 2 operation is located on program memory 8, which simplifies the use of apparatus 2 for the user, since no software installation is needed. Apparatus 2 is consequently accessible for users which are unfamiliar or only slightly familiar with the use of computers, and combined with high quality video and audio outputs, confers a user-friendly environment.

Tuner 20 may also be used to receive radio frequency waves, for emitting through speakers 26 conventional radio sound

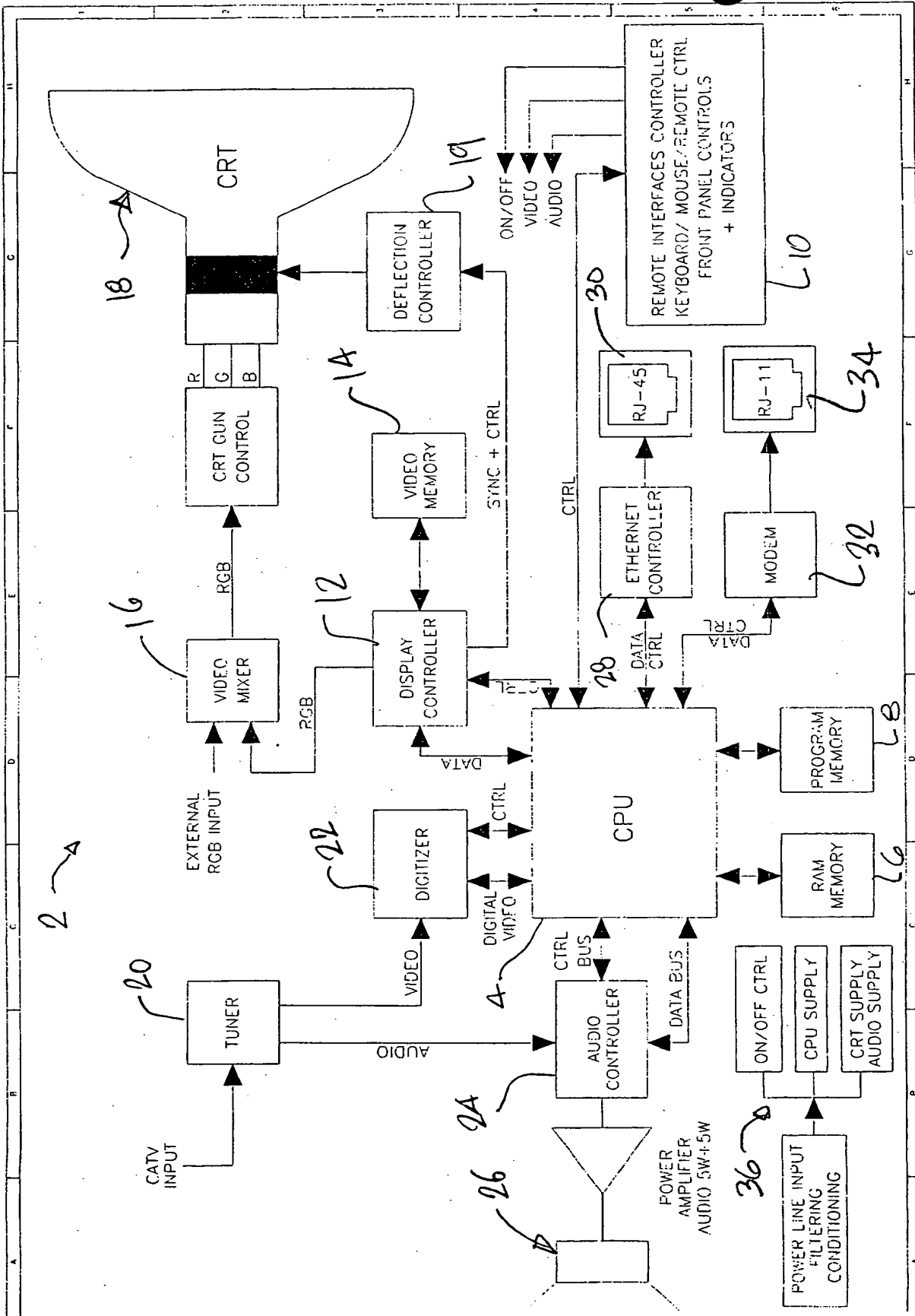
waves.

Any modifications which do not deviate from the scope of the present invention, are considered to be included therein, as will be obvious to one skilled in the art to which the invention pertains.

WE CLAIM:

A computerized television apparatus comprising:

- a processing unit;
- a random access memory and a program memory, linked to said processing unit;
- a modem linked to said processing unit and to a suitable internet connector;
- an ethernet controller linked to said processing unit and to a suitable local network connector;
- an audio and video tuner and digitizer device for receiving video and audio signals which can be processed through said processing unit;
- an audio output device, for transmitting sound waves, connected to said tuner and digitizer device and to said processing unit;
- a video output device, for visualizing images, linked to said processing unit; and
- a power device, for selectively powering said apparatus.



DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION  
DECLARATION ET POUVOIR POUR DEMANDE DE BREVET

FRENCH LANGUAGE DECLARATION  
 Form PTO-FB-235 (8-83)

En tant qu'inventeur nommé ci-après, je déclare par les présentes que mon nom, mon domicile, mon adresse postale et ma nationalité sont ceux qui figurent ci-après. Je déclare que je crois être l'inventeur original, premier et unique (si un seul nom figure sur le présent acte) ou un des co-inventeurs, originaux et premiers (si plusieurs noms figurent sur le présent acte) du sujet revendiqué et pour lequel un brevet est demandé sur la base de l'invention intitulée:

MULTIFUNCTIONAL COMPUTERIZED  
TELEVISION APPARATUS

dont la description:

XX est annexée aux présentes  
    a été déposée: No de série  
 de la demande et date de  
 dépôt:

Je déclare par les présentes avoir examiné et compris le contenu de la description identifiée ci-dessus, revendications y compris, et le cas échéant telle que modifiée par un amendement. Je reconnais le devoir de divulguer toute information qui soit en rapport avec l'examen de cette demande selon le titre 37 de la Codification des Règlements Fédéraux § 1.56(a). Je revendique par les présentes le bénéfice de priorité étrangère selon le titre 35 de la codification des Etats-Unis, § 119,

As a below-named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

the specification of which

    is attached hereto;  
    was filed : serial no and  
 filing date of application:

hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a). I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s)

de toute demande de brevet ou tout certificat d'auteur énuméré ci-après, et j'ai identifié également ci-après toute demande étrangère de brevet ou de certificat d'auteur ayant une date de dépôt antérieure à celle de la demande pour laquelle la priorité est revendiquée:

demande(s) antérieure(s) dans un autre pays:  
pays/ dem. no. /date de dépôt

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for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

prior foreign application(s):  
country/serial no./filing date

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Je reconnais le devoir de divulguer l'information pertinente selon le titre 37 de la codification des règlements fédéraux, § 1.56(a), sur toute information qui se présente entre la date de dépôt de la demande antérieure et la date de dépôt de cette demande, soit nationale, soit internationale PCT. Je déclare par les présentes que toutes mes déclarations, à ma connaissance, sont vraies et que toutes les déclarations faites à partir de renseignements ou de suppositions, sont tenues pour être vraies; de plus, toutes ces déclarations ont été faites en sachant que de fausses déclarations volontaires ou autres actes de même nature sont sanctionnés par une amende ou un emprisonnement, ou les deux, selon l'article 1001, du titre 18 de la Codification des Etats-Unis, et que des déclarations délibérément fausses peuvent compromettre la validité de la demande ou du brevet délivré.

I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 (a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**POUVOIR**

En tant qu'inventeur, je désigne la firme d'agents de brevets et de marques LESPÉRANCE & MARTINEAU, y compris l'agent de brevet suivant pour poursuivre la procédure de cette demande et traiter toute affaire la concernant par devant le bureau des brevets et marques:

adresse postale:

Téléphone: (514) 861-4831  
Téléfax: (514) 392-9112

Nom complet du seul ou premier inventeur:

DUSSAULT, André

signature de l'inventeur:



date: 19 NOVEMBRE 1998

domicile Québec, Canada

nationalité Canadian

adresse postale  
2055, du Moulin, Québec,  
Québec, Canada, G2B 2B9

**POWER OF ATTORNEY**

As a named inventor, I hereby appoint the following patent agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

**Francois Martineau**  
Reg. No. 33072

Send correspondence to:  
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bureau 700  
Montréal (Québec)  
CANADA H3G 1R8

Phone: (514) 861-4831  
FAX: (514) 392-9112

Full name of sole or first inventor:

inventor's signature

date: \_\_\_\_\_ 19\_\_

residence \_\_\_\_\_

citizenship \_\_\_\_\_

post office address \_\_\_\_\_

Nom complet du **second** co-  
inventeur, le cas échéant:

RAFENOMANJATO, Jean-Pierre

Signature du second inventeur:



date: 18<sup>th</sup> of NOVEMBER 19 98

domicile Saint-Etienne-de-  
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Saint-Etienne-de-Lauzon,

Québec, Canada, G6J 1N7

Full name of **second** joint  
inventor, if any

second inventor's signature:

date: \_\_\_\_\_ 19 \_\_\_\_

residence \_\_\_\_\_

citizenship \_\_\_\_\_

post office address

Nom complet du **troisième** co-  
inventeur, le cas échéant:

Signature du troisième  
inventeur:

date: \_\_\_\_\_ 19 \_\_\_\_

domicile \_\_\_\_\_

nationalité \_\_\_\_\_

adresse postale

Full name of **third** joint  
inventor, if any

Third inventor's signature:

date: \_\_\_\_\_ 19 \_\_\_\_

residence \_\_\_\_\_

citizenship \_\_\_\_\_

post office address

86/02T-122T109